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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,402	12/22/2005	Christine Margarete Unger	MXI-352US	6754
	7590 05/12/2010 OCKFIELD, LLP	EXAMINER		
FLOOR 30, SUITE 3000			GUCKER, STEPHEN	
BOSTON, MA	FICE SQUARE .02109	ART UNIT	PAPER NUMBER	
			1649	
			MAIL DATE	DELIVERY MODE
			05/12/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/539,402	UNGER ET AL.				
Examiner	Art Unit				
STEPHEN GUCKER	1649				

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	STEPHEN GUCKER	1649					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. Ednesions of time may be available under the provision of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is generally an endering the maining and the provision of 37 CFR 1.1 after to reply within the sol or extended period for reply with by statistic and potential term adjustment. See 37 CFR 1.70(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 28 Ja	nuary 2010.						
2a)⊠ This action is FINAL. 2b)□ This	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>23-31</u> is/are pending in the application.							
4a) Of the above claim(s) 31 is/are withdrawn fi	4a) Of the above claim(s) 31 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>23-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).					
1.⊠ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage 3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail Da						
Notice of Draftsperson's Patent Drawing Review (P10-946) Information Disclosure Statement(c) (PTO/SS/00)	5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:						

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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Response to Amendment

 All previous rejections of record are withdrawn due to Applicant's amendment to the claims filed 1/28/10. New rejections under new grounds necessitated by Applicant's amendment are set forth below.

2. The following is a guotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 23-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 23 is a genus claim and has been amended to recite an isolated neuropilin binder (NPB), wherein the NPB is a monoclonal antibody, or antigen binding fragment thereof, that specifically binds to cell surface neuropilin-1 without inhibiting the binding of VEGF165 to neuropilin-1. The Applicant did not indicate where in the specification support for the concept of a genus of NPBs which bind cell surface neuropilin-1 could be found. The Examiner notes that the specification describes ligands that bind to the extracellular domain of neuropilin-1, but an extracellular domain of neuropilin-1 is a discrete region of neuropilin-1 regardless of

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whether the neuropilin-1 is in its purified form or if the neuropilin-1 is in situ. This is a new matter rejection.

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(e), (f) or (q) prior art under 35 U.S.C. 103(a).

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Soker et al. ("Soker") in view of Elledge et al. (US 6,218,109 B1; "Elledge").

Soker teaches an antibody that binds to neuropilin-1 (NP-1) but still allows NP-1 and VEGF165 to bind to each other (abstract, Figure 1, and pages 360-362 and 365. See page 358 for anti-NP-1 antibody compositions available from Santa Cruz Biotechnology). Soker does not teach monoclonal antibodies to NP-1. Elledge teaches that monoclonal antibodies can be produced by techniques which are well known (column 32, lines 12-22). It would have been obvious to one of ordinary skill in the art at the time of the invention to make generic monoclonal antibodies that bind NP-1 without inhibiting the binding of VEGF165 to NP-1 because the polyclonal antibodies that were used by Soker were known in the prior art and

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possessed the recited functional property of the instant invention. The motivation to make anti-NP-1 monoclonal antibodies is because of the advantages to produce them in large quantities and the homogeneity of the product as suggested by Elledge (column 32, lines 12-22). Finally, the antibodies of Soker do meet the limitation of binding cell surface NP-1 (see pages 364-367 and Figure 6 in particular for example).

No claim is allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this
 Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

 Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gucker whose telephone number is 571-272-0883. The examiner can normally be reached on Mondays through Fridays from 0930 to 1800.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker, can be reached at 571-272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/S. G./ Examiner, Art Unit 1649 Stephen Gucker May 12, 2010

/Robert C. Hayes/ Primary Examiner, Art Unit 1649